

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-10. (Cancelled)

11. (Original) A method of fabricating an electronic structure having embedded substantially flush circuit features which comprises:

providing a first dielectric layer of polymeric material with a top surface;

depositing a second dielectric layer of polymeric material on said top surface of said first layer of polymeric material, said second dielectric layer of polymeric material also having a second top surface;

defining trench features with sidewalls and bottoms, in said second dielectric layer of polymeric material;

providing a seed layer only on said sidewalls and bottoms of said trench features; depositing electrically conductive material in said trench features such that said electrically conductive material is substantially coplanar with said top surface of said second dielectric layer of polymeric material.

12. (Original) The method of fabricating an electronic structure of claim 11 further including: depositing a third layer of dielectric polymeric material.

13. (Original) The method of claim 11 wherein said trench features are defined by laser ablating.

14. (Original) The method of claim 13 wherein said seed layer is provided by blanket depositing a seed layer and then mechanically removing the seed layer from all non-laser ablated surfaces thereby the seed layer remains only on said sidewalls and bottoms of said trench features.

15. (Original) The method of claim 11 wherein said seed layer is copper provided by depositing copper from copper acetyl acetonate gas by laser deposition thereby providing copper only on said sidewalls and bottoms of said trench features.

16. (Original) The method of claim 11 wherein said conductive material comprises copper.

17. (Original) The method of claim 11 wherein said trench features are up to 20 microns thick.

18. (Original) The method of claim 11 wherein said trench features are about 5 to about 20 microns thick.

19. (Original) The method of claim 11 wherein said trench features are about 5 to about 10 microns thick.

20. (Original) The method of claim 11 wherein said seed layer comprises copper or chromium.

21. (Original) The method of claim 11 wherein the seed layer is about 100 angstroms to about 5000 angstroms thick.

22. (Original) The structure obtained by the process of claim 11.

23. (Original) A method for fabricating a structure having embedded substantially flush circuitry features which comprises:

providing a first layer of polymer resin having a metal dispersed therein and having a top surface;

depositing a second dielectric layer of a dielectric polymeric material on said top surface of said first polymer resin, said second dielectric layer of a dielectric polymeric material also having a second top surface;

defining trench features with sidewalls and bottoms, in said second dielectric layer of dielectric polymeric material and into said first layer of polymer resin and thereby exposing metal in said sidewalls and bottoms of said trench features to provide a seed layer; depositing electrically conductive material in said trench features such that the electrically conductive material is substantially coplanar with said second top surface of said second dielectric layer of a dielectric polymeric material .

24. (Original) The method of claim 23 wherein said conductive material comprises copper.

25. (Original) The method of claim 23 wherein said trench features are up to 20 microns thick.

26. (Original) The method of claim 23 wherein said trench features are about 5 to about 20 microns thick.

27. (Original) The method of claim 24 wherein said trench features are about 5 to about 10 microns thick.

28. (Original) The method of claim 24 wherein said seed layer comprises copper or chromium.

29. (Original) The method of claim 24 wherein said seed layer is about 100 angstroms to about 5000 angstroms thick.

30. (Original) The structure obtained by the process of claim 23.

31. (Original) The method of claim 23 wherein said metal comprises copper powder.